

Claims

All pending claims are reproduced below, including those that remain unchanged. No claims are currently being amended, canceled or added.

1. (Original): An air transporter-conditioner comprising:
a housing having a top and a removable inlet and an outlet;
an ion generator, when energized, that can create an airflow between the inlet and the outlet, and including a first electrode and a second electrode, and a voltage generator coupled between the first electrode and the second electrode;
said second electrode being removably mounted in said housing so that the second electrode can be removed for cleaning, and wherein said second electrode is removable through said top of said housing;
a germicidal lamp that can expose the airflow to germicidal radiation, disposed in said house, said germicidal lamp removably mounted in said housing such that after said inlet is removed, said germicidal lamp can be removed.
2. (Original): The air transporter-conditioner of claim 1 wherein:
said housing has a side extending downwardly from said top and said inlet is located through said side.
3. (Original): The air transporter-conditioner of claim 1 wherein said housing is elongated and said inlet and said outlet are covered with elongated fins which extend along a direction of the elongated housing.

4. (Original): The air transporter-conditioner of claim 1 wherein said housing is vertically upstanding and said inlet and said outlet are covered with vertical elongated fins.
5. (Original): An air transporter-conditioner comprising:
 - a housing having an inlet and an outlet;
 - an ion generator which, when energized, that can create an airflow between the inlet and the outlet, and including a first electrode and a second electrode, and a voltage generator coupled between the first electrode and the second electrode;
 - said second electrode being removably mounted in said housing so that the second electrode can be removed for cleaning; and
 - a germicidal lamp exposing the airflow to germicidal radiation, disposed in said house, said germicidal lamp removably mounted in said housing such that said germicidal lamp can be changed.
6. (Original): The air transporter-conditioner of claim 5 wherein said housing has a top and said second electrode and said germicidal lamp are removable through said top.
7. (Original): The air transporter-conditioner of claim 5 wherein said housing has a top and a side and the second electrode is removable through said top and said germicidal lamp is removable through said sides.
8. (Original): The air transporter-conditioner of claim 5 wherein:

said housing has a top and said second electrode has a first handle located on said top, which first handle can be used to lift said second electrode out of said housing through said top; and

said germicidal lamp has a second handle, which second handle located on said top, which second handle can be used to lift said germicidal lamp out of said housing through said top.

9. (Original): An air transporter-conditioner comprising:

an upstanding, elongated housing having a top and a side wall extending downwardly from said top, said housing further including an inlet defined through said side wall and an outlet;

said inlet removably mounted to said side wall;

an ion generator which, when energized, that can create an airflow between the inlet and the outlet, and including a first electrode and a second electrode, and a voltage generator coupled between the first electrode and the second electrode;

said second electrode being removably mounted in said housing so that the second electrode can be removed for cleaning;

said top of said housing including a port through which said second electrode can be removed;

a germicidal lamp exposing the airflow to germicidal radiation, disposed in said house, said germicidal lamp removably mounted in said housing such that said germicidal lamp can be changed; and

said germicidal lamp removably mounted in said housing adjacent to said removable inlet so that after said removable inlet is removed, said germicidal lamp can be removed.

10. (Original): The air transporter-conditioner of claim 9 wherein said second electrode is elongated along a direction of elongation of said housing.

11. (Previously Presented): A method for maintaining an air transporter-conditioner having a housing with a top and a side, and an ion generator in said housing which ion generator includes a first ion emitter electrode and a second collector electrode, and a germicidal lamp that emits germicidal radiation in said housing, comprising the steps of in any order and with the steps occurring within a relatively short period of time or over a substantial period of operation of the air transporter-conditioner:

removing the second collector electrode through the top of said housing for cleaning;

removing the germicidal lamp through said side for replacing a germicidal lamp;

replacing the second collector electrode through the top of said housing into said housing;

and

placing a new germicidal lamp into said housing.

12. (Previously Presented): The method of claim 11 including preparatory to removing the germicidal lamp, the step of removing a side wall of the housing.

13. (Previously Presented): The method of claim 11 including preparatory to removing the germicidal lamp, the step of removing a side outlet vent located in said side of said housing.

14. (Previously Presented): The method of claim 11 including preparatory to removing the germicidal lamp, the step of removing a side vertically louvered vent located in said side of said housing.

15. (Previously Presented): The air transporter-conditioner of claim 1, wherein said germicidal lamp is an ultraviolet lamp with a wavelength of about 254 nanometers.

16. (Previously Presented): The air transporter-conditioner of claim 5, wherein said germicidal lamp is an ultraviolet lamp with a wavelength of about 254 nanometers.

17. (Previously Presented): The air transporter-conditioner of claim 9, wherein said germicidal lamp is an ultraviolet lamp with a wavelength of about 254 nanometers.

18. (Previously Presented): The air method of claim 11, wherein said germicidal lamp is an ultraviolet lamp with a wavelength of about 254 nanometers.

19. (Previously Presented): An air conditioner device, comprising:

- a free-standing vertically elongated housing including a top, a first side and a second side generally opposite said first side;
- a first air vent in said first side of said housing;
- a second air vent formed in a removable panel, said removable panel adapted to be secured to said second side of said housing;

an ion generator positioned in said housing that creates an electro-kinetic airflow between said air vents, said ion generator including at least one emitter electrode, at least one vertically elongated collector electrode, and a voltage generator to produce a high voltage potential difference between said emitter and collector electrodes; and

a vertically elongated germicidal lamp positioned in said housing between said air vents to expose the airflow to germicidal radiation;

wherein said vertically elongated collector electrode is removable out through said top of said housing, to thereby allow said collector electrode to be cleaned or replaced; and

wherein said vertically elongated germicidal lamp is removable out through said second side of said housing after said removable panel is removed from said housing, to thereby allow said germicidal lamp to be cleaned or replaced.

20. (Previously Presented): An air conditioner device, comprising:

a free-standing vertically elongated housing including a top, a first vent and a second vent;

an ion generator positioned in said housing that creates an electro-kinetic airflow between said air vents, said ion generator including at least one emitter electrode, at least one vertically elongated collector electrode, and a voltage generator to produce a high voltage potential difference between said emitter and collector electrodes; and

a vertically elongated germicidal lamp positioned in said housing between said air vents to expose the airflow to germicidal radiation;

wherein said vertically elongated collector electrode is removable out through said top of said housing, to thereby allow said collector electrode to be cleaned or replaced; and

wherein said vertically elongated germicidal lamp is removable out through said top of said housing, to thereby allow said germicidal lamp to be cleaned or replaced.

21. (Previously Presented): The device of claim 20, further comprising:

a first user-liftable handle attached to said vertically elongated collector electrode for assisting with removing said vertically elongated collector electrode out through said top of said vertically elongated housing; and

a second user-liftable attached to said vertically elongated germicidal lamp for assisting with removing said vertically elongated germicidal lamp out through said top of said vertically elongated housing.